Scow DPIP Requirements

Black- Basic Requirements for all profiles
Blue – Add these items to the basic requirements for the Monitoring Profile
Green – Add these items to the Monitoring Profile requirements for the Ullage Profile
Purple – Add these items to the Ullage Profile requirements for the TDS Profile

The DPIP shall include the following as a minimum:
(DPIP must have table of context in the following order)

- Dredging Company
  - Dredge Point of Contact
  - Phone Number
- Scow Monitoring System Provider
  - Scow Monitoring System Point of Contact
  - Telephone Number
- Scow ID
- Sensor repair, replacement, installation, modification or calibration methods
- Data reporting equipment
- Procedure for providing sensor data/computed data to SI Database via e-mail
- System Power Supply
- System Battery Charge Method
- If the system is left in place past the end of the contract, how will the contract number will be changed
- System telemetry
- Dimensioned Drawings of the Scow
  - A typical plan and profile view of the scow showing:
    - Bin cross sections
    - Locations of required sensors referenced to:
      - fore and aft perpendicular
      - bin length, depth, width, zero reference
      - external hull draft markings (latitudinal, longitudinal, keel)
      - each other
    - overall scow dimensions
- Criteria and method used to increment trip number
- A description of how the UTC time stamp is collected
- Positioning system
  - brand name and specifications
  - sampling rates for data acquisition (standard vs. dump)
  - scow heading instrumentation brand name and specifications
  - instrument used to calculate COG

        - any calculation done external to the instrumentation
        - certificates of calibration and/or manufacturer certificates of compliance
    - A description of how scow speed is determined
    - Hull status
        - Instrumentation brand name and specifications
        - Certificates of calibration and/or manufacturer certificates of compliance
        - Any calculation done external to the instrumentation
        - Criteria for determining hull open/closed
    - Drafts:
        - instrumentation brand name and specifications
        - Certificates of calibration and/or manufacturer certificates of compliance
        - Any calculation done external to the instrumentation
        - Criteria used to determine draft
    - Displacement:
        - Method used by contractor to calculate displacement based on fore and aft draft
        - Tables listing (fresh and salt water) displacement as a function of draft certified by a licensed marine surveyor/ naval architect independent of the contractor (ft and tenths of ft)
            - These methods and tables must be an accurate reflection of the current configuration and displacement
    - Bin Ullage:
        - Sensor brand name and specifications
        - Certificates of calibration and/or manufacturer certificates of compliance
        - Any calculation done external to the instrumentation
        - Criteria used to determine ullage
    - Volume:
        - Method used by contractor to calculate bin volume based on fore and aft bin ullage
        - Table which lists the bin volume as a function of bin ullage certified by a licensed marine surveyor/ naval architect independent of the contractor (ft and tenths of ft)
            - These methods and tables must be an accurate reflection of the current configuration and volume
    - Refractometer
        - Brand
        - Resolution and minimum accuracy
        - method of calibration

- Bin status criteria used to determine open/closed measurements of bin status
- Contractor Data
  - Backup frequency
  - Backup method
  - post processing
- Archive capability
- Documentation of :
  - test methods used by the contractor to provide quality control of data
  - verification that the reported values are applicable for the sensor and application

  Log of sensor performance and modifications